

WHAT IS EDDMapS?

- Electronic EDRR tool (e-mail alerts)
- State/County Distribution Maps
- Google Maps Interface for Point Distribution
- Large Scale Cooperative Management of New Invasive Species
- Custom Queries and Reports

WHY USE EDDMapS?

- Fast, Free and Easy
- Ready to go today!
- One database for all weed data
- Dichotomous key specific to Montana
- Meets national invasive plant management standards
- Data can be output to meet your needs (CSV, KML, CPX, Shapefile)

WHY WAS IT DEVELOPED?

To get a more accurate picture of the distribution of invasive species across North America

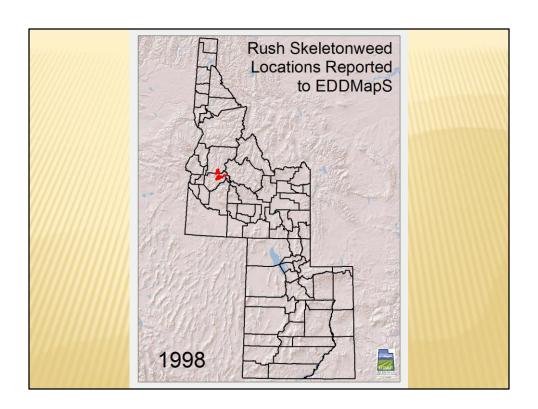
- Create inexpensive tools for managers
- Create a space for existing data and new data
- Ability to have evolving data

GOALS OF MAPPING

- Set priorities for prevention/eradication/control
- Get funding for implementation
- Track progress toward goals

LOCAL TO NATIONAL NEEDS

- * Absence of data for complete distribution
- Data from all sources shared in one place
- Ability to look across county/state lines
- Suitability maps



OBSERVATIONS 2015

- x~ 41 reports/day
- ×269 reports in one day (highest number)
- ★Total of 14,514 reports
- ★Total of 2,048 reporters

OBSERVATIONS 2016

- *~ 181 reports/day
- *1,518 reports in one day (highest number)
- Total of 44,378 reports
- **★**Total of 1,776 reporters

EDDMapS West Stats

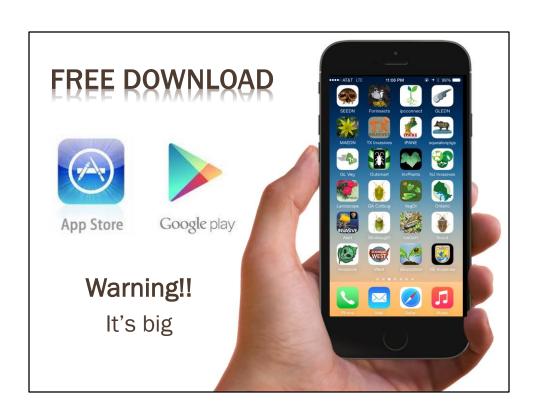
13,994 Reports – 4,778 in 2016 1,933 Web Reports - 608 in 2016



Bulk Data 221,898 Records 36,057 in 2016

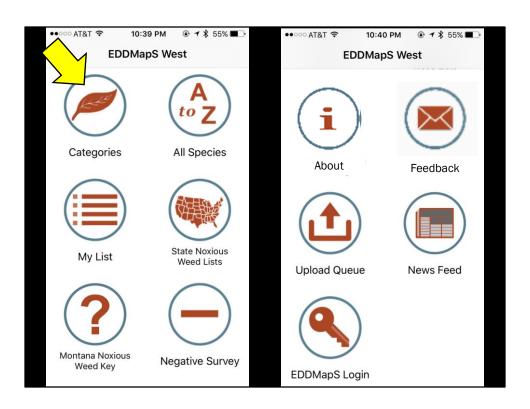
HOW IT WORKS?

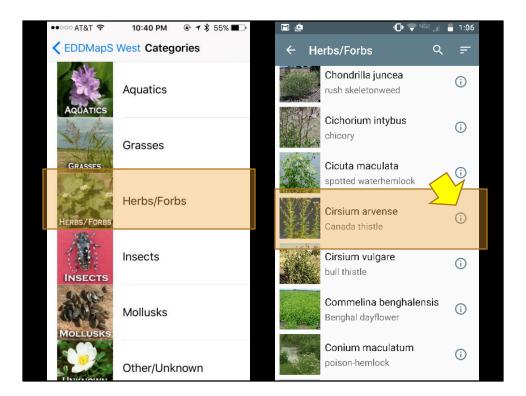
- Download App
- ⋆ Log-in
- Create and submit a report
- Verification process
- Uploaded to website
- Manage reports



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EDD MapS Early Detection & Distribution Mapping System	EDD MapS Early Detection & Distribution Mapping System
Email	First Name:
1	Last Name:
Password	Organization:
SIGN IN	Email:
REGISTER	Password:
q ¹ w ² e ³ r ⁴ t ⁵ y ⁶ u ⁷ i ⁸ o ⁹ p ⁰	Are you a part of the First Detector Program?
asdfghjkl	
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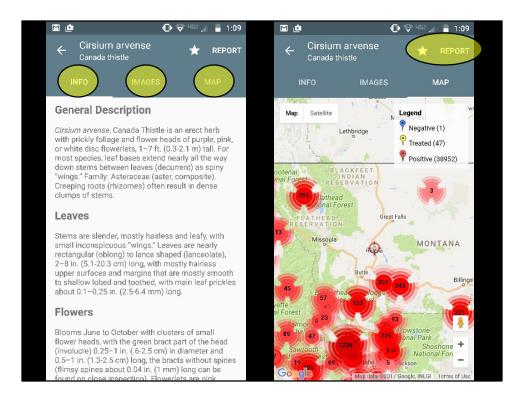
Register once for both the online and app version Username is your email You must register to submit reports for verification





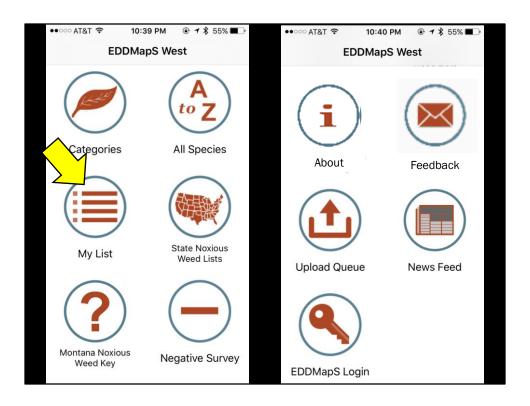
Categories

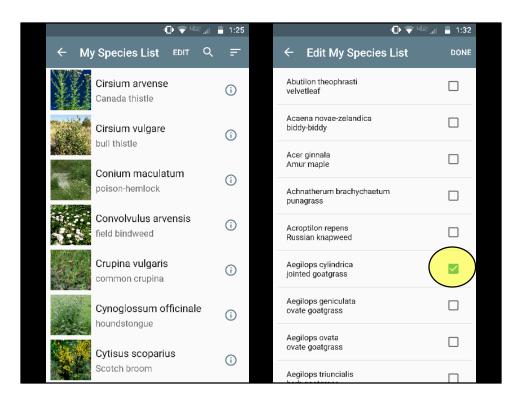
- -Choose from list to get a species list
- -Picture and Name of species take you to Report
- -Click the "I" for more info



More Info

- -Info for Description
- -Images for Pictures
- -Map for Distribution Map (existing points with colored records)
- -Report to go straight to Reporting Form





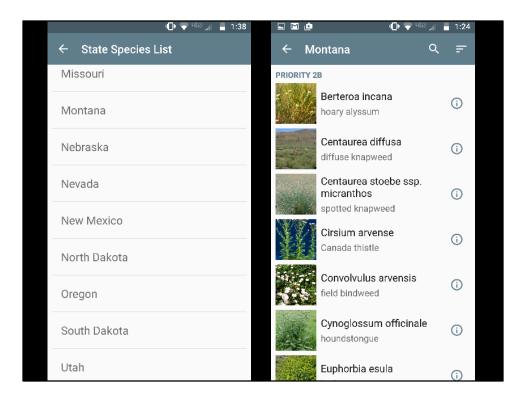
Create a My Species List (quick go to for weeds you care about)

- -Can get quick info
- -Can get to report form faster

To Add/Delete weeds from list

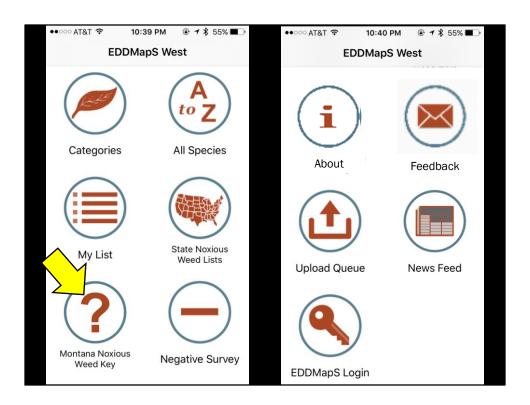
-Click on checkbox

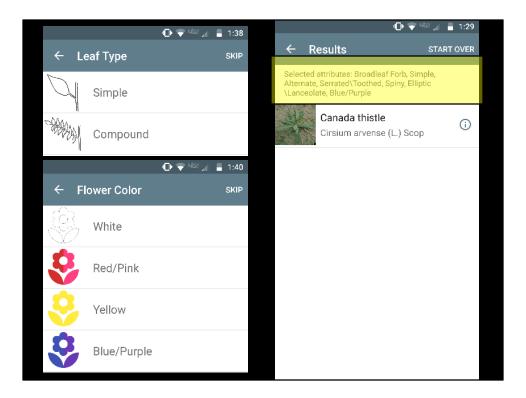




Montana Priority List

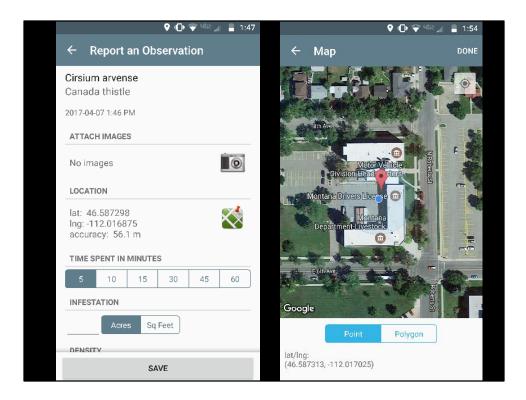
- Also has lists from 15 other states
- -Montana's will be updated to include the three new weeds (common buckthorn-2A, medusahead-1A, Eurasian watermilfoil hybrid- as complex)





Montana's Dichotomous key

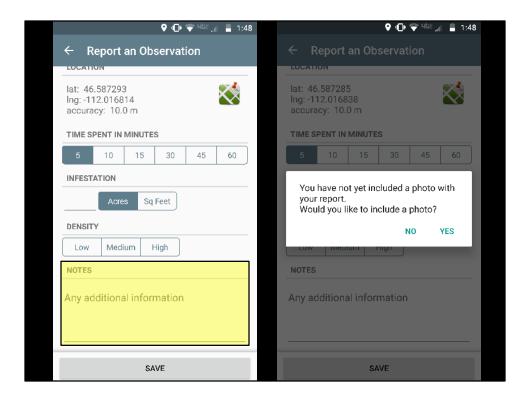
- -unique to Montana
- -Jane Mangold from MSU helped design the key
- -Pick attributes of the plant to narrow down your search



Report Form

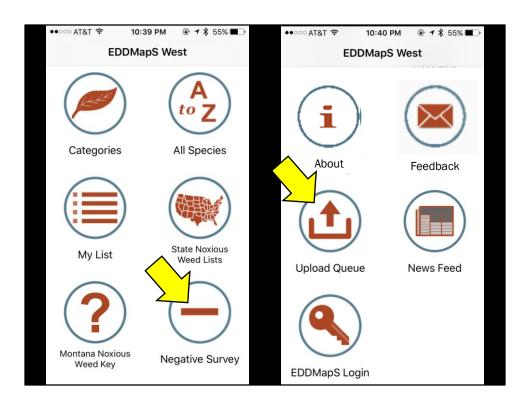
- -Take Pictures (more than one is better)
- -Phone automatically records lat/Ing
- -Click on the Map to draw a polygon (uses Google Maps so must be in service)
- *if there's no service, the app will record a point at your lat/lng position when Queue is uploaded
- *report can be changed on the website later if needed
- Record the time spent in locating the infestation (not really for our use)
- Record the estimated size of infestation

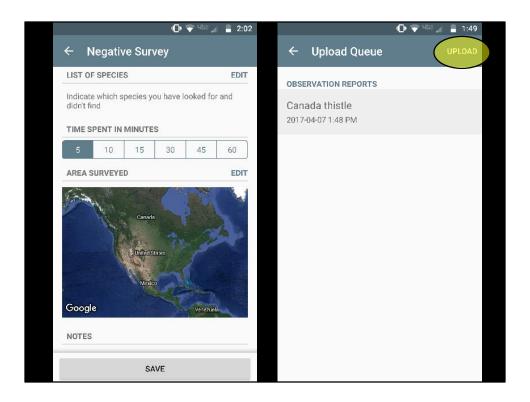
-



Report Form (Continued)

- -Record the density of the infestation
- -Notes...
- *if this is a test- write TEST
- *can record windspeed, observations of site, other observers, ect.
- -Click Save
- *system will prompt you to upload a picture—VERY important for verification



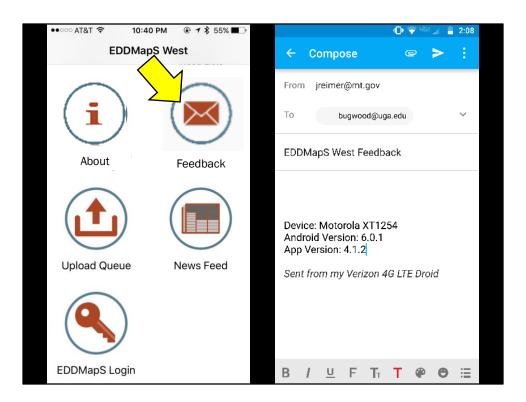


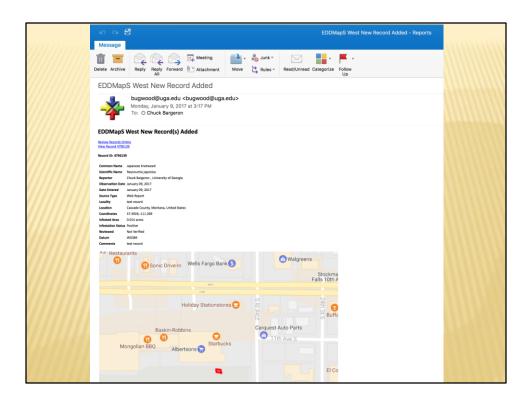
Negative Survey

-If you have crews looking in spots that have had weeds reported in the past

Upload your Reports

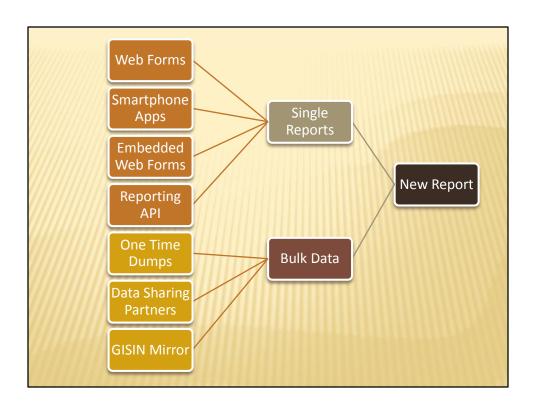
- -In Upload Queue...Click Upload
- *must have cell or wifi service
- *an email is sent to the verifier for the area or State (Dave Burch until it grows)

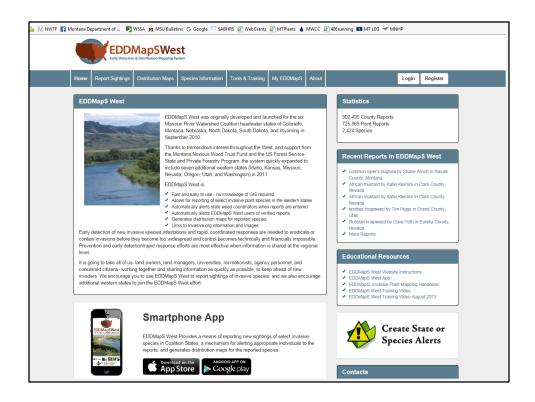


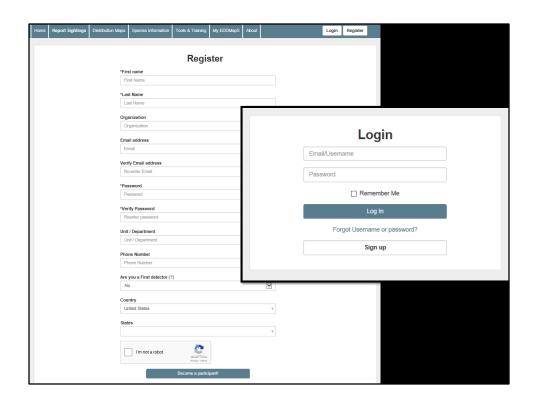


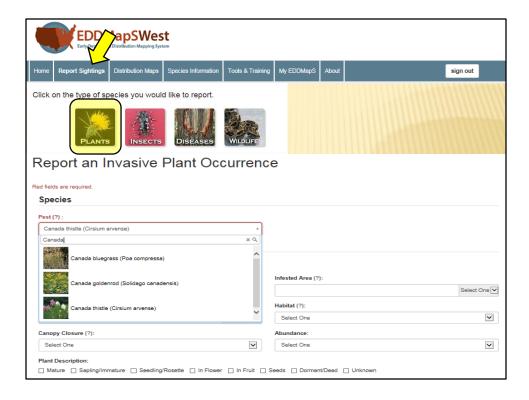
Verification Email

-If Dave doesn't know who the record is from, he will contact the county weed coordinator or extension agent to verify



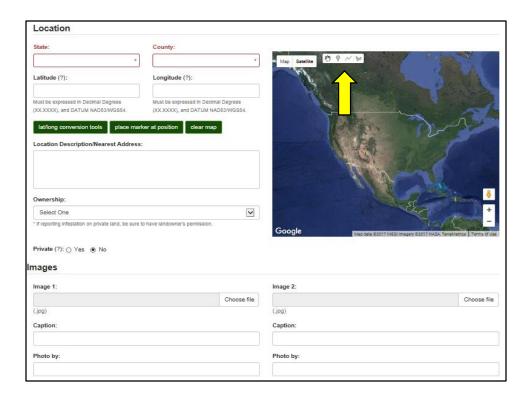






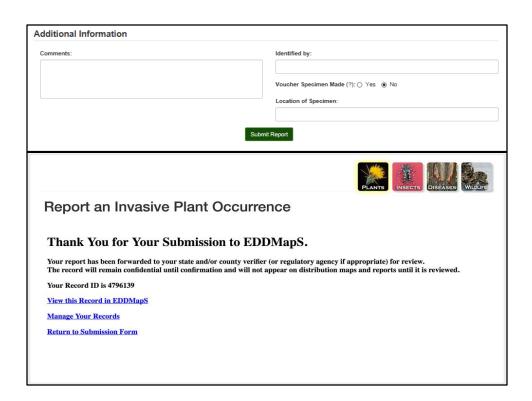
Report Sightings

- -Click on Plants
- -Fill out report
- *Choose a species from dropdown
- *Only the fields with Red must be completed, but the more fields you can fill out the better
- *The "?" mark will give you extra information



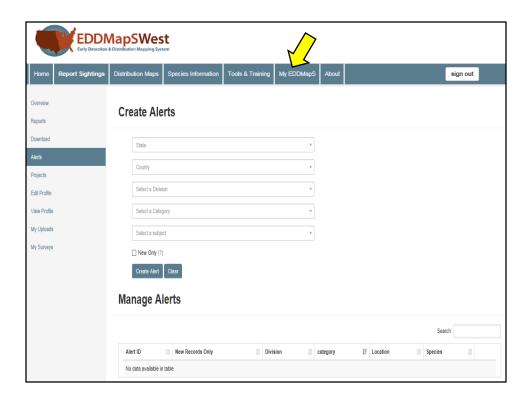
Report Sighting (Continued)

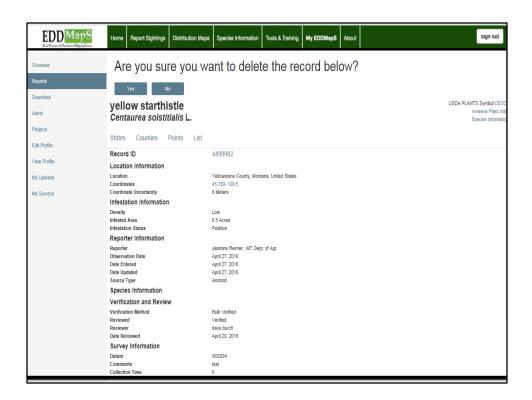
- -Can zoom to location by clicking State and County or inputting lat/Ing
- -Tools at top of map for a point, line, or polygon
- -Ownership- if private property...get permission first
- *if owners want information kept private click Yes below
- -You can upload up to 5 pictures of the weed/infestation

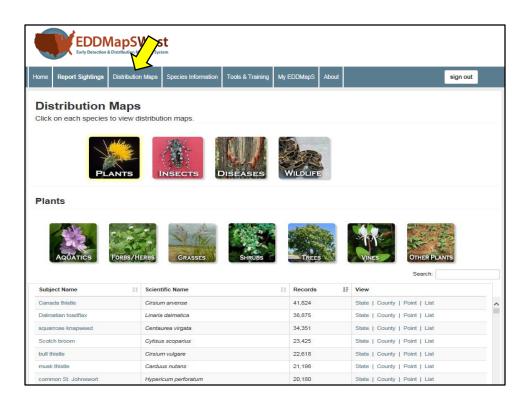


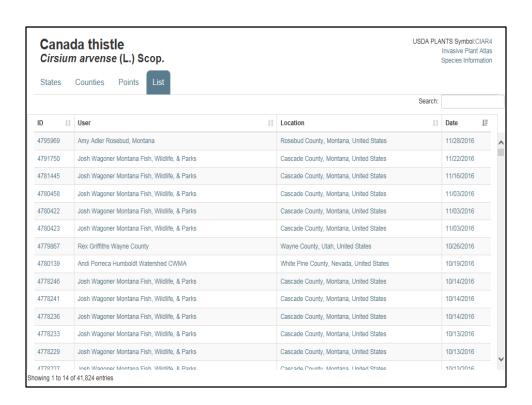
Report Sightings (Continued)

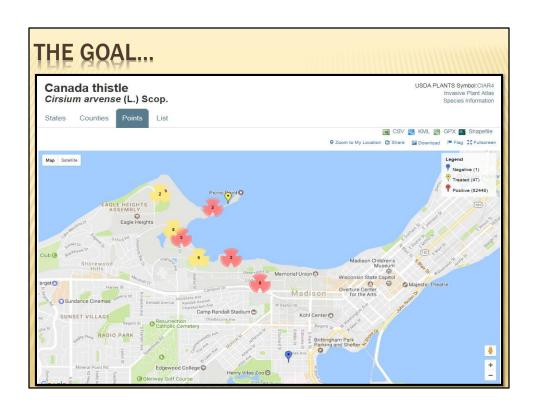
- -Add any comments like "TEST" if applicable
- -Submit report











Canada thistle

Cirsium arvense (L.) Scop.

Taxonomic Rank

Kingdom: Plantae Phylum: Magnoliophyta Class: Magnoliopsida Subclass: Asteridae Order: Asterales

Family: Asteraceae Genus: Cirsium

Subject: Cirsium arvense (L.) Scop.

Other System Links

Plants: CIAR4 Bayer: CIRAR GRIN: 100755 ITIS: 36335 NPDN Pest: PBFAWBB NPDN Host: 31702

Synonyms and Other Names

Other Common Names:

Californian thistle, creeping thistle, field thistle

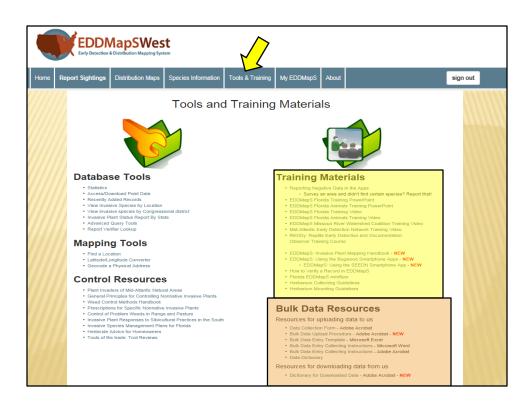
Related Scientific Names:

Breea arvensis (L.) Scop. (Synonym)
Breea incana (L.) Scop. (Synonym)
Carduus arvensis (L.) Scop. (Synonym)
Cirsium incanum (L.) Scop. (Synonym)
Cirsium setosum (L.) Scop. (Synonym)
Serratula arvensis (L.) Scop. (Synonym)

References

Common Name Reference: USDA, NRCS. 2010. The PLANTS Database. National Plant Data Center, Baton Rouge, LA, USA.

Scientific Name Reference: USDA, NRCS. 2010. The PLANTS Database. National Plant Data Center, Baton Rouge, LA, USA.



KEY POINTS

- Available Now!
- * Fast, Free and Easy to use
- * Aggregates data from other systems
- Working towards "complete" county level distribution
- EDRR implementation
- Online/Mobile forms, alerts and verified info

CREDITS AND ACKNOWLEGMENTS

- Chuck Bargeron- University of Georgia
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- × Jasmine Reimer- MT Department of Agriculture
 - + Noxious Weed Trust Fund
- Maps and Screenshots
 - + EDDMapS.2017.Early Detection & Distibution Mapping System.The University of Georgia-Center for Invasive Species and Ecosystem Health. Available online at http://www.eddmaps.org/; last accessed April 7, 2017.